

Hideaki Sawada

List of Publications by Year in descending order

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78
papers

4,146
citations

331538

21
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all docs

79
docs citations

79
times ranked

3576
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature magnetoresistance in an oxide material with an ordered double-perovskite structure. <i>Nature</i> , 1998, 395, 677-680.	13.7	1,883
2	Intergrain tunneling magnetoresistance in polycrystals of the ordered double perovskite $\text{Sr}_2\text{FeReO}_6$. <i>Physical Review B</i> , 1999, 59, 11159-11162.	1.1	438
3	Band Theory for Ground-State Properties and Excitation Spectra of Perovskite LaMO_3 (M=Mn, Fe, Co). <i>Tj ETQq1</i> 1 0.784314 rgBT/Over 266	2.9	266
4	Jahn-Teller distortion and magnetic structures in LaMnO_3 . <i>Physical Review B</i> , 1997, 56, 12154-12160.	1.1	164
5	First-principles study on electronic structures and phase stability of MnO and FeO under high pressure. <i>Physical Review B</i> , 1999, 59, 762-774.	1.1	116
6	Orbital and magnetic orderings in localized d^2 systems, YTiO_3 and YVO_3 : Comparison with a more itinerant system LaMnO_3 . <i>Physical Review B</i> , 1998, 58, 6831-6836.	1.1	114
7	First-principles calculation of the interaction between nitrogen atoms and vacancies in silicon. <i>Physical Review B</i> , 2000, 62, 1851-1858.	1.1	107
8	Electronic structure of oxygen vacancy in Ta_2O_5 . <i>Journal of Applied Physics</i> , 1999, 86, 956-959.	1.1	102
9	Orbital and spin orderings in YVO_3 and LaVO_3 in the generalized gradient approximation. <i>Physical Review B</i> , 1996, 53, 12742-12749.	1.1	82
10	Inverse versus Normal NiAs Structures as High-Pressure Phases of FeO and MnO. <i>Physical Review Letters</i> , 1998, 81, 1027-1030.	2.9	65
11	The Dependence of the Superconducting Transition upon the Quench Temperature of $\text{YBa}_2\text{Cu}_3\text{O}_y$. <i>Japanese Journal of Applied Physics</i> , 1987, 26, L1054-L1056.	0.8	62
12	Magnetic susceptibility of normal state and superconductivity of $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Physica C: Superconductivity and Its Applications</i> , 1990, 166, 417-422.	0.6	45
13	First-principles study of interface structure and energy of Fe/NbC. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2013, 21, 045012.	0.8	38
14	Chemical misfit origin of solute strengthening in iron alloys. <i>Acta Materialia</i> , 2017, 131, 445-456.	3.8	36
15	Structural, electronic, and magnetic properties of Fe_3N . <i>Physical Review B</i> , 1994, 50, 10004-10008.	1.1	34
16	Theoretical study of orbital ordering in YTiO_3 . <i>Physica B: Condensed Matter</i> , 1997, 237-238, 46-47.	1.3	34
17	Study on copper valency of high- T_c superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ by high temperature X-ray absorption spectroscopy. <i>Solid State Communications</i> , 1988, 65, 213-217.	0.9	33
18	Superconductivity and Crystal Structure of $\text{LaBa}_2\text{Cu}_3\text{-xO}_y$ Compounds. <i>Japanese Journal of Applied Physics</i> , 1987, 26, L1703-L1706.	0.8	28

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19	First-principles study on the grain boundary embrittlement of bcc-Fe by Mn segregation. <i>Physical Review Materials</i> , 2019, 3, .	0.9	23
20	Study of the Infrared Properties of $(La_{1-x}Sr_x)_2CuO_4$. <i>Japanese Journal of Applied Physics</i> , 1987, 26, L426-L428.	0.8	21
21	Full-Potential KKR Calculations for Point Defect Energies in Metals, based on the Generalized-Gradient Approximation: II. Impurity-Impurity Interaction Energies and Phase Diagrams. <i>Materials Transactions</i> , 2001, 42, 2216-2224.	0.4	21
22	Atomistic model of nitrogen-pair diffusion in silicon. <i>Physical Review B</i> , 2002, 65, .	1.1	21
23	Preparation and Property of $La_{1.85}Sr_{0.15}CuO_4$ Single Crystal. <i>Japanese Journal of Applied Physics</i> , 1987, 26, L386-L387.	0.8	20
24	First-principles analysis of the grain boundary segregation of transition metal alloying elements in $\hat{\gamma}$ -Fe. <i>Computational Materials Science</i> , 2022, 210, 111050.	1.4	20
25	Electronic band structure and lattice distortion in perovskite transition-metal oxides. <i>Physica B: Condensed Matter</i> , 1997, 237-238, 11-13.	1.3	19
26	Electronic origin of grain boundary segregation of Al, Si, P, and S in bcc-Fe: combined analysis of ab initio local energy and crystal orbital Hamilton population. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2021, 29, 015001.	0.8	18
27	Partitioning of Cr and Si between cementite and ferrite derived from first-principles thermodynamics. <i>Acta Materialia</i> , 2016, 102, 241-250.	3.8	17
28	Transition of the Interface between Iron and Carbide Precipitate From Coherent to Semi-Coherent. <i>Metals</i> , 2017, 7, 277.	1.0	17
29	Infrared properties of the oxygen-deficient triperovskite $YBa_2Cu_3O_y$ compound. <i>Solid State Communications</i> , 1987, 64, 1047-1050.	0.9	16
30	Effects of the surface and interface on the magneto-optical properties in (Co, Ni)/Cu(001) ultrathin films. <i>Physical Review B</i> , 1996, 54, 15950-15957.	1.1	16
31	First-principles study of grain boundary embrittlement in Fe-Ni-S alloy. <i>Computational Materials Science</i> , 2012, 55, 17-22.	1.4	16
32	Dependence of Carbon Concentration and Alloying Elements on the Stability of Iron Carbides. <i>ISIJ International</i> , 2019, 59, 1128-1135.	0.6	16
33	Theoretical Prediction of Grain Boundary Segregation Using Nano-Polycrystalline Grain Boundary Model. <i>Materials Transactions</i> , 2021, 62, 575-581.	0.4	14
34	Changes in States of Carbon and Mechanical Properties with Aging at 50Å°C after Quenching in Low Carbon Steel. <i>Materials Transactions</i> , 2020, 61, 668-677.	0.4	14
35	Prediction of thermodynamic properties of solute elements in Si solutions using first-principles calculations. <i>Acta Materialia</i> , 2003, 51, 551-559.	3.8	13
36	Interaction between Substitutional and Interstitial Elements in α iron Studied by First-principles Calculation. <i>Materials Transactions</i> , 2005, 46, 1140-1147.	0.4	13

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37	Superconducting Properties of La _{1.85} Sr _{0.15} CuO ₄ Made by Hot-Press and Sinter Methods. Japanese Journal of Applied Physics, 1987, 26, L311-L313.	0.8	11
38	A Mechanism of Carbon-Cluster Strengthening through Atomic Simulations. Materials Transactions, 2020, 61, 2139-2148.	0.4	11
39	Theoretical Prediction of Grain Boundary Segregation Using Nano-Polycrystalline Grain Boundary Model. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2020, 84, 237-243.	0.2	10
40	Identification of a Structure with Two Superconducting Phases in L-Ba-Cu-O System (L=La or Y). Japanese Journal of Applied Physics, 1987, 26, L621-L623.	0.8	9
41	Application of Grain Boundary Segregation Prediction Using a Nano-Polycrystalline Grain Boundary Model to Transition Metal Solute Elements: Prediction of Grain Boundary Segregation of Mn and Cr in bcc-Fe Polycrystals. Materials Transactions, 2022, 63, 269-277.	0.4	9
42	Anomalous enhancement of superconductivity observed in La ₂ CuO ₄ δ . Solid State Communications, 1988, 65, 1539-1543.	0.9	8
43	Electronic band structure of La _{1-x} Ba _x MnO ₃ . Journal of Physics and Chemistry of Solids, 1995, 56, 1719-1720.	1.9	8
44	Interaction between Substitutional and Interstitial Elements in α -Fe Studied by First-Principles Calculation. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2004, 68, 977-982.	0.2	8
45	Orbital and charge orderings and magnetism in perovskite-type transition-metal oxides. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1999, 63, 11-16.	1.7	7
46	Effects of Alloying Elements on Hydrogen Diffusion in Iron. ISIJ International, 2021, 61, 1287-1293.	0.6	7
47	Application of Grain Boundary Segregation Prediction Using a Nano-Polycrystalline Grain Boundary Model to Transition Metal Solute Elements: Prediction of Grain Boundary Segregation of Mn and Cr in bcc-Fe Polycrystals. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2021, 85, 421-429.	0.2	7
48	An answer to the carbon cluster in low-temperature aged ferritic low-carbon steel. Materials Characterization, 2020, 159, 110006.	1.9	6
49	Characterization of age hardening mechanism of low-temperature aged low-carbon steel by transmission electron microscopy. Materials Characterization, 2022, 183, 111579.	1.9	6
50	Weak Flux-Pinning Effect between 230 K and 40 K in La _{1.8} Sr _{0.2} CuO ₄ . Japanese Journal of Applied Physics, 1987, 26, L383-L385.	0.8	5
51	Anomalous enhancement of fractional volume of superconductivity in La ₂ CuO ₄ δ due to field cooling process. Physica C: Superconductivity and Its Applications, 1988, 153-155, 1495-1496.	0.6	5
52	The Magneto-Optical Quantum Size Effect in bcc-Fe(001) and (110) Ultrathin Films. Materials Research Society Symposia Proceedings, 1995, 382, 237.	0.1	5
53	Phase stability and magnetic property of LaCo _{1-x} Ni _x O ₃ . Journal of Physics and Chemistry of Solids, 1995, 56, 1755-1757.	1.9	5
54	Changes in States of Carbon and Mechanical Properties with Aging at 500°C after Quenching in Low Carbon Steel. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2019, 83, 353-362.	0.2	5

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55	Analysis of the dynamic behavior and local structure of solid-solution carbon in age-hardened low-carbon steels by soft X-ray absorption spectroscopy. <i>Materialia</i> , 2020, 14, 100876.	1.3	5
56	Interaction between hydrogen and solute atoms in bcc iron. <i>Computational Materials Science</i> , 2021, 198, 110652.	1.4	5
57	Jahn-Teller distortion and magnetic structures in LaMnO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 1998, 177-181, 879-880.	1.0	4
58	Effect of B on Growth of Recrystallized Grain of Ti-added Ultra-low Carbon Cold-rolled Steel Sheets. <i>ISIJ International</i> , 2018, 58, 1901-1909.	0.6	4
59	AN ATTEMPT OF FIRST PRINCIPLE CALCULATION OF ALLOY PHASE DIAGRAM. , 1991, , 779-784.		4
60	First-principles computational tensile test of γ -Fe grain boundaries considering the effect of magnetism: Electronic origin of grain boundary embrittlement due to Zn segregation. <i>Physical Review Materials</i> , 2022, 6, .	0.9	4
61	Magnetization Property of Annealed La _{1.85} Sr _{0.15} CuO ₄ from 300 K to 5 K. <i>Japanese Journal of Applied Physics</i> , 1987, 26, L316-L317.	0.8	3
62	The 36K and 40K superconductivities of La ₂ CuO ₄ δ . <i>Synthetic Metals</i> , 1989, 29, 735-740.	2.1	3
63	Observation of Chemical State for Interstitial Solid Solution of Carbon in Low-carbon Steel by Soft X-ray Absorption Spectroscopy. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2018, 104, 628-633.	0.1	3
64	Crystal Structure Analysis of Top Dross in Molten Zinc Bath by First Principles Calculation and Synchrotron X-ray Diffraction. <i>ISIJ International</i> , 2021, 61, 929-936.	0.6	3
65	Electronic structure analysis of magnetic properties of Fe ₁₆ N ₂ . <i>Journal of Computer-Aided Materials Design</i> , 1993, 1, 75-84.	0.7	2
66	Mechanism of Grain Boundary Embrittlement in Fe-Ni-S Alloys. <i>ISIJ International</i> , 2013, 53, 1289-1291.	0.6	2
67	Improvement of Anti-aging Property at Low Temperature by Cr Addition in Bake Hardenable Ultra Low Nitrogen Steels. <i>ISIJ International</i> , 2015, 55, 2648-2656.	0.6	2
68	Effect of B on Growth of Recrystallized Grain of Ti-added Ultra-low Carbon Cold-rolled Steel Sheets. <i>Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan</i> , 2017, 103, 221-229.	0.1	2
69	A Study on First Principle Calculation of Alloy Phase Diagram by Monte Carlo Simulation. <i>Materials Research Society Symposia Proceedings</i> , 1992, 291, 135.	0.1	1
70	Observation of Chemical State for Interstitial Solid Solution of Carbon in Low-carbon Steel by Soft X-ray Absorption Spectroscopy. <i>ISIJ International</i> , 2020, 60, 114-119.	0.6	1
71	Infrared Properties of the High-T _c Superconductor (La, Y)-Ba-Cu-O and La-Sr-Cu-O Compounds. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1011.	0.8	1
72	Correlation of Layered Structure and Superconductivity in (La, Y)-Ba-Cu-O System. <i>Japanese Journal of Applied Physics</i> , 1987, 26, 1065.	0.8	1

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73	Dependence of Carbon Concentration and Alloying Elements on the Stability of Iron Carbides. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 352-361.	0.1	1
74	A Mechanism of Carbon-Cluster Strengthening through Atomic Simulations. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2020, 84, 19-27.	0.2	1
75	Crystal Structure Analysis of Top Dross in a Molten Zinc Bath by First Principle Calculation and Synchrotron X-ray Diffraction. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 205-213.	0.1	0
76	Oxygen-Intercalation Effect upon Tetragonal-LaBa ₂ Cu ₃ xO _y Compound Samples. , 1987, , 1089-1093.		0
77	Importance of Controlling Microstructure Heterogeneity when Designing Steel. , 2015, , 3-9.		0
78	A Determination of Carbon Solubility Limit in Bcc-Iron from Low-Temperature Age Hardening by Bayesian Inference. Tetsu-To-Hagane/Journal of the Iron and Steel Institute of Japan, 2020, 106, 807-815.	0.1	0